

CLAIMS

What is claimed is:

1. A catheter head comprising:
a housing having a cavity extending therethrough, the cavity defining a seat;
a cannula extending from within the cavity, the cannula having a flange extending therefrom;
a retaining body secured to the housing, the retaining body having a pathway extending axially therethrough and defining a sealing surface; and
a gasket in sealing cooperation with the flange and the sealing surface.
2. The catheter head of claim 1, wherein the retaining body is ultrasonically welded to the housing.
3. The catheter head of claim 2, wherein the gasket is an O-ring.
4. The catheter head of claim 1, wherein the sealing surface is frusto-conical.
5. The catheter head of claim 4, wherein the cannula includes a frusto-conical seat which receives a portion of the sealing surface.
6. The catheter head of claim 1, wherein the cavity defines a ledge and the retaining body includes a flange which cooperates with the ledge to limit axial movement of the retaining body within the cavity.
7. The catheter head of claim 1, and further comprising a passage in communication with, and extending radially from, the cavity.
8. The catheter head of claim 1, and further comprising a piercing needle extending through the cavity, the retaining body, and the cannula.

[illegible]

a guide extending from the cannula housing and cooperating with the guide sleeve to position the connecting needle into the passage.

11. The catheter head of claim 9, wherein an upper side of the cannula housing forms, during insertion of the connecting needle into the passage, a support and an additional slideway for the needle holder.

12. The catheter head of claim 11, wherein the upper side is adapted to an underside of the needle holder which is curved in cross direction to said connecting needle, the upper side thus forming said additional slideway.

13. The catheter head of claim 9, wherein an underside of the needle holder is mould positioned on an upper side of a rear section of the cannula housing during positioning and insertion of the connection needle.

14. The catheter head of claim 9, wherein the needle holder comprises an upper side symmetrical to its underside, wherein the underside and the upper side are preferably curving outwardly away from each other.

15. The catheter head of claim 9, wherein a piercing needle for said cannula projects through the cannula housing at an angle to the longitudinal direction of the inserted connecting needle.
16. The catheter head of claim 9, wherein the cannula includes a frusto-conical seat which receives a portion of the retaining body.
17. The catheter head of claim 9, wherein the retaining body includes a frusto-conical sealing surface.
18. The catheter head of claim 9, and further comprising an O-ring disposed between the retaining body and the flange.
19. The catheter head of claim 9, wherein the retaining body is ultrasonically welded to the interior surface.
20. The catheter head of claim 9, wherein the cavity defines a ledge and the retaining body includes a flange which cooperates with the ledge to limit axial movement of the retaining body within the cavity.
21. A catheter head for subcutaneous administration of a substance, comprising:
a cannula housing carrying a soft cannula to be placed in tissue and having a passage to said cannula for the substance;
a center part placed in and rigidly bonded to the cannula housing; and
means for sealing between a flange of the cannula and the center part.
22. The catheter head of claim 21, wherein the cannula housing comprises an underside for flush positioning on a tissue surface.
23. The catheter head of claim 21, wherein the means for sealing comprises an O-ring.

24. A catheter head comprising:
a housing with a cavity, wherein the cavity has an opening and an annular seat around the opening,
a soft cannula having a portion in contact with the annular seat;
means for sealing; and
a center part received in the cavity, whereby the means for sealing is lodged between the portion of the cannula and the center part.
25. The catheter head of claim 24, wherein the center part is shaped to fit generally closely within the cavity.
26. The catheter head of claim 25, wherein the portion of the cannula comprises a radially outwardly extending flange.
27. The catheter head of claim 26, wherein the center part comprises a single piece.
28. A method of assembling a catheter head comprising a housing having a cavity with a seat, a cannula with a flange, an O-ring and a center part, said method comprising the steps of:
positioning the cannula in the cavity so the flange is in contact with the seat;
placing the O-ring in the cavity overlying the flange;
placing the center part in the cavity to the extent that it contacts and compresses the O-ring; and
attaching center part to the housing.
29. The method according to claim 28, wherein said attaching is accomplished by ultrasonically welding the center part to the housing.